SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Grabstein, Kenneth Anderson, Dirk Eisenman, June Fung, Victor Rauch, Charles

- (ii) TITLE OF INVENTION: Epithelium-derived T-cell Factor
- (iii) NUMBER OF SEQUENCES: 12
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Seed and Berry
 - (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
 - (C) CITY: Seattle
 - (D) STATE: Washington
 - (E) COUNTRY: USA
 - (F) ZIP: 98104
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: McMasters, David D.
 - (B) REGISTRATION NUMBER: 33.963
 - (C) REFERENCE/DOCKET NUMBER: 480052.409C2
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 206-622-4900

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 489 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 1..489 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: ATG AGA ATT TCG AAA CCA CAT TTG AGA AGT ATT TCC ATC CAG TGC TAC 48 Met Arg Ile Ser Lys Pro His Leu Arg Ser Ile Ser Ile Gln Cys Tyr 10 1 CTG TGT TTA CTT CTA AAG AGT CAT TTT CTA ACT GAA GCT GGC ATT CAT 96 Leu Cys Leu Leu Leu Lys Ser His Phe Leu Thr Glu Ala Gly Ile His 20 25 30 GTC TTC ATT TTG GGC TGT TTC AGT GCA GGG CTC CCT AAA ACA GAA GCC 144 Val Phe Ile Leu Gly Cys Phe Ser Ala Gly Leu Pro Lys Thr Glu Ala 40 45 35 192 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile 50 55 60 CAA TCT ATG CAT ATT GAT GCT ACT TTA TAT ACA GAA AGT GAT GTT CAC 240 Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His 65 70 75 CCC AGT TGC AAG GTA ACA GCA ATG AAG TGC TTT CTC TTG GAG TTG CAA 288 Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln 85 90 95 GTT ATT TCA CAT GAG TCC GGA GAT ACA GAT ATT CAT GAT ACA GTA GAA 336 Val Ile Ser His Glu Ser Gly Asp Thr Asp Ile His Asp Thr Val Glu

	100							105	•				110			
	AAT CT Asn Le		Ile			Asn										3 84
	ACA GA Thr G1	u Ser														432
	A AA G A Ly s G 1 1 45													Ile		480
	ACT TO Thr Se														-	489
(2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 amino acids (B) TYPE: amino acid (D) TOPOLOGY: linear																
		(ii)	MOLE	CULE	TYP	E: p	rote	in								
		(xi)	SEQU	ENCE	DES	CRIP	TION	: S E(סו ב	NO:2	2:					
	Met Ar	g Ile	Ser	Lys 5	Pro	His	Leu	Arg	Ser 10	Ile	Ser	Пe	GIn	C ys 1 5	Tyr	
	Leu Cy	s Leu	Leu 20		Lys	Ser	His	Phe 25	Leu	Thr	Glu	Ala	Gly 30	Ile	His	
	Val Ph	e Ile 35		Gly	Cys	Phe	Ser 40	Ala	Gly	Leu	Pro	Lys 45	Thr	G1u	Ala	
	Asn Tr	p V al	Asn	Val	Ile	Ser 55		Leu	Lys	Lys	Ile 60	G1u	Asp	Leu	Ile	
	Gln Se	r Met	His	Tle	Asn	Δla	Thr	I eu	Tvr	Thr	Glu	Ser	Asn	Va1	His	

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	6 5					70					75		80				
	Pro	Ser	Cys	Lys	V a1 85	Thr	Ala	Met	Lys	Cys 90	Phe	Leu	Leu	G lu	Leu 9 5	Gln	
	V a1	Ile	Ser	His 100	G1u	Ser	Gly	Asp	Thr 105	Asp	Пe	His	Asp	Thr 110	Val	Glu	
p ===	Asn	Leu	I1e 115	Ile	Leu	Ala	Asn	Asn 120	Пe	Leu	Ser	Ser	Asn 125	Gly	Asn	Ile	
	Thr	G 1u 130	Ser	Gly	Cys	Lys	G1u 135	Cys	G1u	Glu	Leu	G1u 140	G1u	Lys	Asn	Ile	٠
Q	Lys 145	Glu	Phe	Leu	Gln	Ser 150	Phe	Val	His	Ile	Val 155	Gln	Met	Phe	Ile	A sn 1 60	
	Thr	Ser															
	(2)	INFO)RMA	TION	FOR	SEQ	ID	NO:3	:							•	
		(i)	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 114 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear														
		(ii)) MOI	LECUI	LE T	YPE:	pro	tein									
	((ii) MOLECULE TYPE: protein (iii) HYPOTHETICAL: NO															
		(xi)) SE	QUEN	CE D	ESCR	IPTI	ON:	SEQ	ID N	0:3:				•		
		Asr 1	ı Tr	p Va	1 As	n Va 5	ı II	e Se	r As	p Le	u Ly 10		s II	ė G1	u As	p Leu 15	Пе
		Gl	ı Se	r Me	t Hi 20	s Il	e As	p Al	a Th	r Le 25		r Th	r Gl	u Se	r As 30	p Val	His
		Pro	s Se	r Cy 35		s V a	1 Th	r Al	a Me 40		s Cy	's Ph	e Le	u Le 45		u Leu	Gln

	Va	1 I1e 50	e Sei	r His	s G1u	Ser	G1y 55	Asp	Thr	Asp	Ile	His 60	Asp	Thr	· Val	G1u ·	
	A s: 6 5		ı Ile	e Ile	e Leu	Ala 70	Asn	Asn	Пe	Leu	Ser 75	Ser	Asn	Gly	Asn	Ile 80	
	Thi	r Glu	ı Sei	~ G13	C ys 8 5	Lys	Glu	Cys	GTu	G 1u 9 0	Leu	G1u	Glu	Lys	Asn 95	Ile	
	Ly:	s Glu	ı Phe		ı Gln)	Ser	Phe	V a1	His 105		Val	G1n	Met	Phe 110		Asn	· .
	Thi	r Ser	•														
(2)	INFO	ORMAT	ION	FOR	SEQ 1	ID NO	0:4:						•				
	(i)	(A (B	() LE () TY () ST	NGTH PE: RANC	IARACT I: 489 nucle EDNES IGY: 1	baseic a SS: s	se po acid sing	airs			-				•		
	(ix)) N A	ME/K	EY: (ON: 1		39										
٠	(ix)	SEQ	UENC	E DE	SCRIF	MOIT	l: Sã	EQ IC	NO:	4:							
					CCA (Pro H												48
					AAC A Asn S												96
GTC	TTC	ATT	TTG	GGC	TGT T	TC A	GT (CA C	GG (πg	CT A	WA A	ACA (AA (GCC	•	144

Val Phe Ile Leu Gly Cys Phe Ser Ala Gly Leu Pro Lys Thr Glu Ala

	3 5							40	1	4 5												
	A AC A sn	TGG Trp 50	Val	AAT Asn	GTA Val	ATA Ile	AGT Ser 55	Asp	TTG Leu	AAA Lys	AAA Lys	ATT Ile	Glu	GAT Asp	CTT Leu	ATT		192				
	CAA G1n 65	Ser	ATG Met	CAT His	ATT	GAT Asp 70	GCT Ala	ACT Thr	TTA Leu	TAT Tyr	ACG Thr 75	Glu	AGT Ser	GAT A sp	GTT Val	CAC His 80		240				
	CCC Pro	AGT Ser	TGC Cys	AAA Lys	GTA Val 85	ACA Thr	GCA Ala	ATG Met	AAG Lys	TGC Cys 90	TTT Phe	CTC Leu	TTG Leu	GAG G1u	TTA Leu 95	CAA Gln		288				
	GTT Val	ATT	TCA Ser	CTT Leu 100	GAG G1u	TCC Ser	GGA Gly	GAT A sp	GCA Ala 105	AGT Ser	ATT Ile	CAT His	GAT Asp	ACA Thr 110	GTA Val	GAA G1u		3 36				
	AAT Asn	CTG Leu	ATC Ile 115	ATC Ile	CTA Leu	GCA Ala	AAC A sn	AAC Asn 120	AGT Ser	TTG Leu	TCT Ser	TCT Ser	AAT Asn 125	GGG Gly	AAT A sn	GTA V al		3 84				
t _e j	Thr	GAA Glu 130	TCT Ser	GGA Gly	TGC C ys	A AA Lys	GAA G1u 135	TGT Cys	GAG Glu	GAA G1u	CTG Leu	GAG G1u 140	GAA Glu	AAA Lys	A AT A sn	ATT Ile		432				
•	A AA Lys 145	GAA G1u	TTT Phe	TTG Leu	CAG G1n	AGT Ser 150	TTT Phe	GTA Val	CAT His	ATT	GTC Val 155	CAA Gln	ATG Met	TTC Phe	ATC Ile	AAC Asn 160		480				
	ACT Thr	TCT Ser	TGA															4 89				

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162 amino acids

(B) TYPE: amino acid
(D) TOPOLOGY: linear

(b) Torocourt. Trincar

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Met Arg Ile Ser Lys Pro His Leu Arg Ser Ile Ser Ile Gln Cys Tyr 1 5 10 15

Leu Cys Leu Leu Leu Asn Ser His Phe Leu Thr Glu Ala Gly Ile His
20 25 30

Val Phe Ile Leu Gly Cys Phe Ser Ala Gly Leu Pro Lys Thr Glu Ala 35 40 45

Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile 50 55 60

Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His
65 70 75 80

Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln
₩ 95

Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His Asp Thr Val Glu
100 105 110

Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val 115 120 125

Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile 130 135 140

Lys Glu Phe Leu Gln Şer Phe Val His Ile Val Gln Met Phe Ile Asn 145 150 155 160

Thr Ser

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(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile 1 5 10 15

Gln Ser Met His Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His 20 25 30

Pro Ser Cys Lys Val Thr Ala Met Lys Cys Phe Leu Leu Glu Leu Gln 35 40 45

Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His Asp Thr Val Glu 50 55 60

Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val 65 70 75 80

Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile 85 90 95

Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn 100 105 110

Thr Ser

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

	TCGACT	TGGAA CGAGACGACC TGCT	24											
	(2) IN	NFORMATION FOR SEQ ID NO:8:												
	. ((i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear												
The state of	(x	xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:												
	AGCAGG	CAGGTCGT CTCGTTCCAG												
÷	(2) IN	NFORMATION FOR SEQ ID NO:9:												
		 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 												
	(×	ki) SEQUENCE DESCRIPTION: SEQ ID NO:9:												
	A AYTGG	GGTNA AYGTNATH	18											
	(2) IN	NFORMATION FOR SEQ ID NO:10:												
	((i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear												
	(x	(i) SEQUENCE DESCRIPTION: SEQ ID NO:10:												

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	(i)	(A) (B) (C)	JENCE LEN TYP STR	IGTH: PE: n RANDE	17 nucle DNES	base eic a SS: s	e pai acid singl	irs									
	(xi)	SEQU	JENCE	DES	CRIF	OIT	1: SE	EQ IO	NO:	11:			•				
ACR [*]	CRCTY	T CN	IGTRT	A .					٠								
(2)	INFOR	TAM!	ON F	FOR S	SEQ I	D NO):12:	•									
	(i)	(A)	JENCE LEN TYP TOP	IGTH: PE: a	: 114 amino	lami aci	ino a id		5								
	(ii)	MOLE	ECULE	TYF	e: t	orote	ein										
	(xi)	SEQU	JENCE	E DES	SCRIF	OIT	۱: Sa	EQ IC	NO:	12:							
	Asn 1	Trp	Val	Asn	V a1 5	Ile	Ser	Asp	Leu	Lys 10	Lys	Ile	<u>G</u>]u	Asp	Leu 15	Ile	
	Gln	Ser	Met	His 20	Ile	Asp	Ala	Thr	Leu 2 5	Tyr	Thr	G 1u	Ser	Asp 30	V a1	His	
	Pro	Ser	Cys 35	Lys	Va1	Thr	Ala	Met 40	Lys	Cys	Phe	Leu	Leu 45	G1u	Leu	Gln	
	۷a۱	Ile 5 0	Ser	Xaa	Glu	Ser	Gly 5 5	Asp	Xaa	Xaa	Ile	His 60	Asp	Thr	Val	Glu	
	Asn 65	Leu	Пe	Ile	Leu	Ala 70	Asn	Asn	Xaa	Leu	Ser 75	Ser	Asn	Gly	Asn	Xaa 80	

(2) INFORMATION FOR SEQ ID NO:11:

Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile 85 90 95

Lys Glu Phe Leu Gln Ser Phe Val His Ile Val Gln Met Phe Ile Asn 100 105 110

Thr Ser